

ISO/IEC GUIDE 25:1990  
ANSI/NCSL Z540-1-1994  
ISO 9002:1987

## Scope of Accreditation



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CALIBRATION LABORATORIES

NVLAP LAB CODE 105007-0

### STATE OF VIRGINIA METROLOGY LAB

1 North 14th Street, Room 025  
Richmond, VA 23219-3691

Mr. Michael J. Kramer

Phone: 804-786-0479 Fax: 804-371-0351

### DIMENSIONAL

*NVLAP Code:* 20/D13

Survey Rods and Tapes

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to 25 ft	0.0015 inches	Metal Tapes (Bench Method)
25 to 50 ft	0.003 inches	Metal Tapes (Bench Method)
50 to 75 ft	0.0045 inches	Metal Tapes (Bench Method)
75 to 100 ft	0.006 inches	Metal Tapes (Bench Method)
0 to 25 ft	0.003 inches	Steel Tapes (Tape to Tape)
25 to 50 ft	0.006 inches	Steel Tapes (Tape to Tape)
50 to 75 ft	0.009 inches	Steel Tapes (Tape to Tape)
75 to 100 ft	0.012 inches	Steel Tapes (Tape to Tape)

September 30, 2000

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### STATE OF VIRGINIA METROLOGY LAB

#### TIME AND FREQUENCY

*NVLAP Code:* 20/F01

Frequency

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1000 to 6000 Hz	0.047 mph	Tuning forks at frequencies used in law enforcement converted to miles per hour (mph)

#### MECHANICAL

*NVLAP Code:* 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
500 kg	4567 mg	Tolerance Test
300 kg	4567 mg	Tolerance Test
200 kg	2755 mg	Tolerance Test
100 kg	2755 mg	Tolerance Test
50 kg	278.9 mg	Tolerance Test
30 kg	277.9 mg	Tolerance Test
25 kg	277.5 mg	Tolerance Test

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20 kg	277.4 mg	Tolerance Test
10 kg	277.1 mg	Tolerance Test
5 kg	277.2 mg	Tolerance Test
3 kg	277.2 mg	Tolerance Test
2 kg	1.56 mg	Tolerance Test
1 kg	0.576 mg	Tolerance Test
500 g	0.267 mg	Tolerance Test
300 g	0.266 mg	Tolerance Test
200 g	0.266 mg	Tolerance Test
100 g	0.033 mg	Tolerance Test
50 g	0.028 mg	Tolerance Test
30 g	0.027 mg	Tolerance Test
20 g	0.026 mg	Tolerance Test
10 g	0.014 mg	Tolerance Test
5 g	0.009 mg	Tolerance Test
3 g	0.008 mg	Tolerance Test
2 g	0.008 mg	Tolerance Test
1 g	0.007 mg	Tolerance Test

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500 mg	0.0048 mg	Tolerance Test
300 mg	0.0048 mg	Tolerance Test
200 mg	0.0047 mg	Tolerance Test
100 mg	0.0047 mg	Tolerance Test
50 mg	0.0047 mg	Tolerance Test
30 mg	0.0047 mg	Tolerance Test
20 mg	0.0047 mg	Tolerance Test
10 mg	0.0047 mg	Tolerance Test
5 mg	0.0047 mg	Tolerance Test
3 mg	0.0047 mg	Tolerance Test
2 mg	0.0047 mg	Tolerance Test
1 mg	0.0047 mg	Tolerance Test

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### MECHANICAL

*NVLAP Code:* 20/M12  
Volume and Density

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1.0 gill	0.002 gill	Volume Transfer
0.5 pint	0.001 pint	Volume Transfer
1.0 pint	0.0005 pint	Volume Transfer
1.0 quart	0.0002 quart	Volume Transfer
0.5 gallon	0.0002 gallon	Volume Transfer
1.0 gallon	0.00016 gallon	Volume Transfer
50 mL	0.13 mL	Volume Transfer
100 mL	0.26 mL	Volume Transfer
200 mL	0.26 mL	Volume Transfer
500 mL	0.26 mL	Volume Transfer
1 Liter	0.0003 Liter	Volume Transfer
2 Liter	0.0003 Liter	Volume Transfer
5 Liter	0.0003 Liter	Volume Transfer
5 gallon	0.0034 gallon	Volume Transfer

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National Voluntary  
Laboratory Accreditation Program

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100 gallon	0.05 gallon	Volume Transfer
> 100 gallon	0.05 gallon or 12 in <sup>3</sup>	Volume Transfer

### THERMODYNAMICS

*NVLAP Code:* 20/T03  
Laboratory Thermometers

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 °C to 85 °C	0.2 °C	Liquid-in-glass

1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

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A handwritten signature in black ink, appearing to read 'James L. Galt', is written over a horizontal line. Below the signature, the text 'For the National Institute of Standards and Technology' is printed.

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